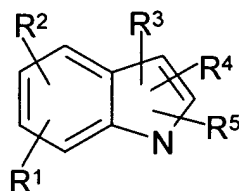# CLAIMS

What is claimed is:

1. A compound of the formula:

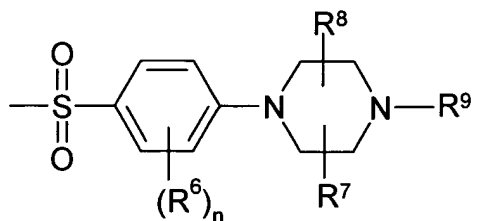

wherein:

R^1 and R^2 each independently is hydrogen, alkyl, aryl, acyl, halo, nitro, amino, cyano, alkoxy, hydroxy, aryloxy, alkylthio, arylthio, thiol, carbonylamino, aminocarbonyl, or haloalkyl;

R^3 and R^4 each independently is hydrogen, halo, alkyl, acyl, aryl, or arylalkyl;

R^5 is:

n is 0 to 4;

R^6 in each independent occurrence is hydrogen, alkyl, alkoxy, or halo;

R^7 and R^8 each independently is hydrogen or alkyl; and

R^9 is hydrogen, alkyl, or arylalkyl;

or an individual isomer, a racemic or non racemic mixture of isomers, a prodrug, or a pharmaceutically acceptable salt or solvate thereof.

2. The compound of claim 1, wherein R^3 and R^4 each independently is hydrogen, halo or alkyl.

3. The compound of claim 1, wherein R^1 and R^2 each independently is hydrogen, halo, or alkoxy.

4.   The compound of claim 1, wherein n is 1 and wherein R^6 is hydrogen or halo.

5.   The compound of claim 1, wherein R^7 and R^8 are hydrogen.

6.   The compound of claim 1, wherein R^9 is hydrogen or alkyl.

7.   The compound of claim 1, wherein:
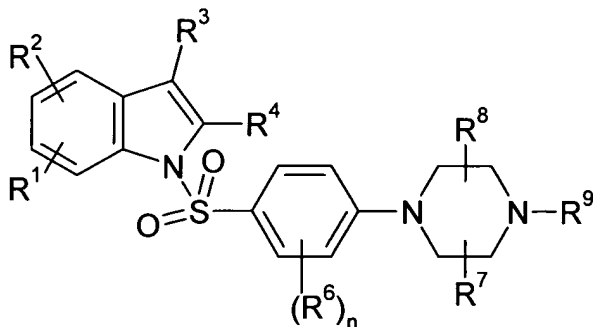
R^1 and R^2 each independently is hydrogen, halo, or alkoxy;

R^3 and R^4 each independently is hydrogen, halo or alkyl;

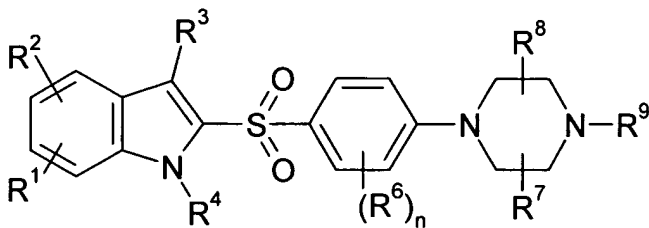n is 1 and R^6 is hydrogen or halo;

R^7 and R^8 are hydrogen; and

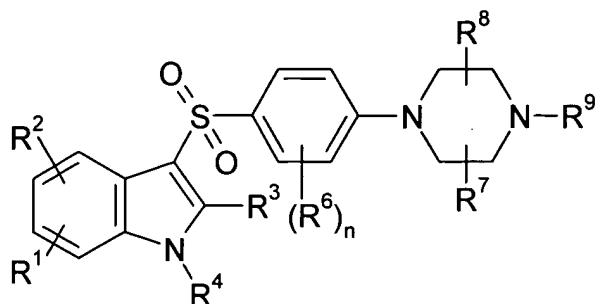R^9 is hydrogen or alkyl.

8.   The compound of claim 7, wherein said compound has the formula:

9.   The compound of claim 7, wherein said compound has the formula:

10.   The compound of claim 7, wherein said compound has the formula:

11.   The compound of claim 8, wherein one of R^1 and R^2 is halo and the other
is hydrogen.

12.   The compound of claim 10, wherein one of R^1 and R^2 is halo and the other
is hydrogen.

13.   The compound of claim 12, wherein n is 1 and R^6 is halo.

14.   The compound of claim 12, wherein n is 0.

15.   The compound of claim 10, wherein R^1 and R^2 are hydrogen.

16.   The compound of claim 15, wherein n is 1 and R^6 is halo.

17.   The compound of claim 15, wherein n is 0.

18.   The compound of claim 12, wherein R^9 is hydrogen.

19.   The compound of claim 12, wherein R^9 is methyl.

20.   The compound of claim 13, wherein R^9 is hydrogen.

21.   The compound of claim 13, wherein R^9 is methyl.

22. The compound of claim 14, wherein R^9 is hydrogen.

23. The compound of claim 14, wherein R^9 is methyl.
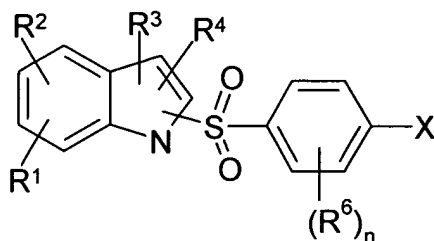
24. The compound of claim 15, wherein R^9 is hydrogen.

25. The compound of claim 15, wherein R^9 is methyl.

26. The compound of claim 16, wherein R^9 is hydrogen.

27. The compound of claim 16, wherein R^9 is methyl.

28. The compound of claim 17, wherein R^9 is hydrogen.

29. The compound of claim 17, wherein R^9 is methyl.

30. A pharmaceutical composition comprising, comprising a compound of claim 1 together with a pharmaceutically acceptable carrier.

31. A method for treating a central nervous system disease state in a subject, said method comprising administering to said subject a therapeutically effective amount of a compound of claim 1.

32. The method of Claim 31, wherein the disease state comprises a disease selected from psychoses, schizophrenia, manic depressions, neurological disorders, memory disorders, attention deficit disorder, Parkinson's disease, amyotrophic lateral sclerosis, Alzheimer's disease and Huntington's disease.

33. A method for treating a disorder of the gastrointestinal tract in a subject, said method comprising administering to said subject a therapeutically effective amount of a compound of claim 1.
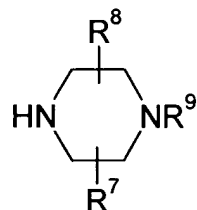
34. A method for treating obesity in a subject, said method comprising administering to said subject a therapeutically effective amount of a of a compound of claim 1.

35. A method for producing a compound of claim 1, comprising contacting a 4-halobenzenesulfonyl-indole of the formula:

with a piperazine of the formula:

to produce a compound of the formula: